REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-23 are presently active in this application, Claims 1, 5, 12, 13, 15, 16, 18, 19, and 20 having been amended and Claims 21-23 added by the present Amendment.

In the outstanding Office Action claims 6, 13-15 and 20 were rejected under 35 USC §112, second paragraph as being indefinite; Claims 1, 2, 4-8, 10-14, 16-17 and 19-20 were rejected under 35 USC §102(e) as being anticipated by Sen et al (6,208,620); Claim 9 was rejected under 35 USC §103(a) as being unpatentable over Sen et al in view of Aravamudan et al (6,301,609); Claims 15 and 18 were indicated as being allowable if rewritten to overcome the rejection under 35 USC §112, second paragraph; and Claim 3 was objected to as being dependent upon a rejected base claim, but otherwise allowable if rewritten in independent form.

Applicants acknowledge with appreciation the indication of allowable subject matter. In light of this indication, Claims 3, 15 and 18 have been rewritten in independent form including all of the limitations of the base claim and any intervening claims as claims 21, 22 and 23, respectively. No new matter has been added.

By way of this amendment and reply to the Office Action dated March 26, 2004, independent claims 1, 12, 13, 16, 19 and 20, dependent claims 6, 15, 18 have been amended, and independent claims . Independent claims 21- 23 are newly added.

Claims 1, 12, 13, 16, 19 and 20 have been amended to recite that the acquired wireless link information includes at least transmittable bandwidth information. Support for this change is found at page 2, lines 16 to 17, page 12, lines 29 to 33. Claims 1, 12, 13, 16, 19

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and 20 have further been amended to recite that the acquired or updated wireless link

information stored in the wireless link information storage section serves as Descriptor

information referable by the remote communicating entity, consistent with the disclosure at

page 13, lines 1 to 12 of the specification, and still further have been amended to clarify that

if data transfer is possible, a transmission rate for transfer of data with the remote

communicating entity is changed in accordance with the wireless link information, consistent

with page 19, lines 15 to 17 of the specification. Further Claim 6 has been amended

consistent with the disclosure at page 2, lines 10 to 12 of the specification. The remaining

changes to the claims are minor and believed to be self-evident. No new matter has been

added.

With regard to the outstanding rejection under 35 U.S.C. §112, second paragraph,

Claim 6 has been amended to clarify that "AV/C protocol" is the standardized upper layer

protocol of the IEEE 1394. In claims 13 and 20, the limitation "said terminal device" is

replaced with --the second terminal device--. Accordingly, the rejection under 35 U.S.C.

§112, second paragraph, is believed to have been overcome.

With regard to the outstanding rejection under 35 U.S.C. 102(e) and 103(a),

independent claims 1, 12, 13, 16, 19 and 20 have been amended to clarify features believed to

more clearly patentably define over the cited <u>Sen et al</u>.

In particular, independent Claims 1, 12, 13, 16, 19 and 20, have been amended to

state, inter alia:

> ... a wireless link information acquisition section for acquiring
> wireless link information indicating the condition of a wireless link between
> said terminal device and a remote communicating entity in the network at the
> time of setting the link, and for updating the wireless link information
> acquired at the time of setting the link by the current dynamically acquired
> wireless link information, the wireless link information including at least
> transmittable bandwidth information;

a wireless link information storage section for storing the acquired or updated wireless link information <u>as Descriptor information referable by the remote communicating entity</u>; and an application section for, based on the wireless link information stored in the wireless link information storage section, determining whether or not data can be transferred and, if data transfer is possible, <u>changing a transmission rate</u> for transfer of data with the remote communicating entity, in accordance with the wireless link information; ...

In the claimed structure, the condition of a dynamically varying wireless link condition information such as transfer speed, transmittable bandwidth, degree of noise, version of the Bluetooth, hardware information of the remote communicating entity, is capable of being referred directly from the application layer (i.e., AV/C to operate remote VTR or DISPLAY on the wireless link) which employs an upper layer protocol of the data link layer protocol, and the application layer can change the transmission rate of the data to be sent in accordance with the stored wireless link information, while in the prior art includes no teaching of acquiring condition information of the wireless link or notify an upper application of the condition of the wireless link in the past wireless LAN specifications such as Bluetooth (see, e.g., page 2, lines 29 to 33 of the specification).

Moreover, as the acquired wireless link information is stored as the Descriptor information defined in the SDP Protocol of Bluetooth (typical wireless link) and AV/C Protocol, such stored wireless link information is able to be referred by the remote terminal via the wireless link. It is respectfully pointed out that the claimed "Descriptor information" is definite terminology explicitly defined in the specification in page 13, lines 1 to 4.

In contrast, in <u>Sen et al.</u>, the Link Monitor Agent only keeps track of the sequence number of the RLP frame corresponding to each TCP packet with sequence numbers of the frame which delivery transmission failed, and the stored information in the WAG is only the cached TCP packet data during forward transmission and ACK return packets by TAS, thereby only the retransmission of the remaining RLP frames corresponding to the corrupted

TCP packet is realized (column 3, lines 42 to 44,column 6, lines 60 to 64, and column 7, lines 1 to 9).
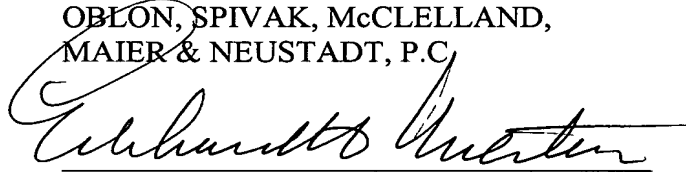
Accordingly, Sen et al., completely fails to disclose above mentioned acquisition and storage as the Descriptor information of the condition of wireless link such as transmittable bandwidth other than the transmission failure, and controlling the transmission rate based on the stored wireless link information.

In view of this deficiency, it is respectfully submitted that the amended Claims 1-20 patentably define over Sen et al.. Since the deficiencies of Sen et al. are not remedied by Aravamudan et al., it is respectfully submitted that the outstanding grounds for rejection have been overcome and should be withdrawn.

Consequently, in view of the present amendment and in light of the above comments, no further issues are believed to be outstanding, and the pending claims are believed to be in condition for formal allowance. An early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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